

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.	
09/000,8	24 12/30	/97	AMARASEKERA		J	60SI-1890
- IM22/0811		XAMINER				
MICHELLE BUGBEE					LU,C	
GENERAL ELECTRIC COMPANY					ART UNIT	PAPER NUMBER
ONE PLASTICS AVENUE PITTSFIELD MA 01201					1713	17
					DATE MAILED:	08/11/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Application No. 09/000,824

Applicant(s)

Examiner

Office Action Summary

Amarasekera et al.
Group Art Unit

C. Caixia Lu

1713



X Responsive to communication(s) filed on Jul 7, 2000	·							
☐ This action is FINAL .								
☐ Since this application is in condition for allowance except for fo in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C								
A shortened statutory period for response to this action is set to exist longer, from the mailing date of this communication. Failure to application to become abandoned. (35 U.S.C. § 133). Extensions 37 CFR 1.136(a).	espond within the period for response will cause the							
Disposition of Claims								
	is/are pending in the application.							
Of the above, claim(s)	is/are withdrawn from consideration.							
Claim(s)	is/are allowed.							
	is/are rejected.							
Claim(s)	is/are objected to.							
☐ Claims	_ are subject to restriction or election requirement.							
Application Papers								
☐ See the attached Notice of Draftsperson's Patent Drawing Re	eview, PTO-948.							
☐ The drawing(s) filed on is/are objected	to by the Examiner.							
☐ The proposed drawing correction, filed on	is \square approved \square disapproved.							
$\hfill\Box$ The specification is objected to by the Examiner.								
$\hfill\Box$ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. § 119								
Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).								
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been								
received.								
☐ received in Application No. (Series Code/Serial Numbe								
☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).								
*Certified copies not received: Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).								
Acknowledgement is made of a claim for domestic priority of	nder 35 U.S.C. 3 119(e).							
Attachment(s)								
☑ Notice of References Cited, PTO-892☐ Information Disclosure Statement(s), PTO-1449, Paper No(s)								
☐ Interview Summary, PTO-413	· 							
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948								
☐ Notice of Informal Patent Application, PTO-152								
SEE OFFICE ACTION ON THE	FOLLOWING PAGES							

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Art Unit: 1713

DETAILED ACTION

Continued Prosecution Application

1. The request filed on July 7, 2000 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/000,824 is acceptable and a CPA has been established. An action on the CPA follows.

Claim Objections

Claim 3 is objected to because of the following informalities: a conjunction word such as --or-is missing in the front of "OH" in line 11. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 17-30 are rejected under 35 U.S.C. 102(a) as being anticipated by Matsushita et al. (EP 0 787 772).

Claims 1-7 and Examples 1 and 2 of Matsushita et al. encompass the instant claims.

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Claim Rejections - 35 USC § 103

5. Claims 1-17, 19-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dams (US 4,355,129) in combination of Milbert (US 3,821,140) and Milbert:

The instant claims are directed to a composition for high voltage insulation comprising a silicone polymer, a reinforcing filler, an anti-tracking agent and flame retardant (aluminum hydroxide), a coupling agent (silane), a curing agent (free radical initiator), an extending filler (non-reinforcing filler), a processing fluid (silicone oil), and optionally, a mold release agent, a coloring agent or heat resistive agent.

Dams teaches a composition for high voltage insulation comprising a silicone polymer (col. 1, line 50 to col. 2, line 20), a reinforcing filler polymer (col. 2, line 25), an anti-tracking and flame retardant agent (col. 3, lines 20-28), a coupling agent (col. 2, lines 38-49), a curing agent (col. 2, line 62 to col. 4, line 5), an extending filler agent (col. 2, line 24-28), a processing fluid (col. 2, lines 16-17 and 43-44), a mold release agent (col. 2, lines 16-17 and 43), a coloring agent (col. 3, lines 32-37), and heat resistant agent (col. 3, lines 21-23).

Although Dams' silicone polymer contains dimethyl siloxy, methylvinyl siloxy and alkylhalogenoalkyl siloxy units, Dams does not particularly teach the silicone polymer containing hydroxy or alkoxy ending group.

Milbert teaches a polysiloxane composition for electric insulation material comprising all the components as claimed in the instant claims except the alumina trihydrate anti-tracking agent (col. 1, line 35 to col. 4, line 10 and Examples).

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Alumina trihydrate is one of the most preferred anti-tracking agents used in the high voltage

insulation silicone material.

When the silicone polymer containing both vinyl and alkoxy/hydroxy groups, the silicone

polymer can bond with the coupling agent through condensation and free radical polymerization

reaction, the silicone polymer might also react with the oxide-type filler directly to enhance the

bonding with the filler.

Thus, it would have been obvious for a skilled artisan at the time the invention is made (i) to

add Dams' alumina trihydrate to Milbert's composition to provide a high voltage insulation material

with much improved anti-tracking property; or (ii) to employ Milbert's silicone polymer in Dams'

composition to provide a high voltage insulation material with improved bonding between the silicone

polymer and the fillers such as silica and alumina.

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Caixia Lu (Ph. D.) whose telephone number is (703) 306-3434. The examiner

can normally be reached from 9:00 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful and the matter is urgent, the examiner's supervisor, David Wu, can be reached at (703) 308-2450. The fax phone numbers for the organization where this application or proceeding is assigned are:

(703) 305-5408 (official)

(703) 305-3599 (official after final)

(703) 305-5885 (unofficial).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

CL

August 9, 2000

DAVID W. WU SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

Da SILVA

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